

ThinkPad X250 Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader																				
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																			
	i5-4300U	2	4	1.9 GHz	2.9 GHz	3MB	DDR3L-1600	Intel HD graphics 4400	Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector																			
	i3-5010U			2.1 GHz	-	3MB		Intel HD Graphics 5500	Camera <i>(optional)</i>	HD720p resolution, low light sensitive, fixed focus																			
	i5-5200U			2.2 GHz	2.7 GHz	3MB			Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack																			
	i5-5300U			2.3 GHz	2.9 GHz	3MB			Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight																			
i7-5600U	2.6 GHz			3.2 GHz	4MB	UltraNav™			TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																				
									Security	Power-on password, hard disk password, supervisor password, security keyhole																			
Graphics	Intel HD Graphics 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)								Security chip	Discrete TPM 1.2, TCG Certified																			
									ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																			
Chipset	Intel SoC (System on Chip) platform 8GB max (i5-4300U processor) or 16GB max (other processors above) / 1600MHz DDR3L, one 204-pin SO-DIMM socket								vPro <i>(optional)</i>	Intel vPro Technology																			
									Fingerprint reader	<i>Optional</i> : Fingerprint reader on the keyboard bezel, swipe sensor																			
Memory									Internal battery	<i>Optional</i> : Integrated Li-Ion or Li-Polymer 3-cell (23Wh)																			
									External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)																			
Display	<i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS <i>Some</i> : 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Max battery life ¹⁰	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>3-cell + 6-cell 48Wh</th><th>3-cell + 6-cell 72Wh</th></tr><tr><td>Battery life</td><td>5.2 hr</td><td>10.7 hr</td><td>16.0 hr</td><td>21.4 hr</td></tr></table>					Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr					
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Multi-touch <i>(opt)</i>	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits																												
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory								AC adapter	45W AC adapter																			
M.2 SSD <i>(opt)</i>	M.2 Solid State Drive (SSD), via M.2 card slot								Preload	<div>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64</div> <ul style="list-style-type: none">• Lenovo Solution Center• Lenovo SHAREit• ThinkVantage Product Recovery• Rescue and Recovery™• ThinkVantage System Update• PC Device Stage• Adobe® Reader®• Microsoft® Office preloaded; purchase a product key to activate• Norton™ Internet Security (30 days of virus definitions)																			
Optical	None																												
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I218-V (Clarkville) <i>vPro model</i> : Intel Ethernet Connection I218-LM (Clarkville)																												
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																												
WLAN ⁴	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none">• 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card• 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card• 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card• 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card																												
WWAN <i>(optional)</i>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none">• Wireless WAN upgradable• Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card• Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card																												
SIM card <i>(opt)</i>	AT&T® or Verizon® LTE (4G), contract required with service provider																												
Dimensions ³	<i>12.5" (WxDxH)</i> : 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm <i>12.5" Touch (WxDxH)</i> : 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm																												
Weight ²	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>No + 6-cell</th><th>3-cell + 6-cell</th></tr><tr><td>Non-touch</td><td>2.88 lb / 1.31 kg</td><td>3.13 lb / 1.42 kg</td><td>3.23 lb / 1.47 kg</td><td>3.48 lb / 1.58 kg</td></tr><tr><td>Multi-touch</td><td>-</td><td>3.29 lb / 1.49 kg</td><td>-</td><td>3.64 lb / 1.65 kg</td></tr></table>														Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell	Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg	Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg
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Case material	<i>Display cover</i> : Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom</i> : Glass-Fiber Reinforced Plastic								Limited warranty ¹² <i>One of the following, configurable by model:</i> <ul style="list-style-type: none">• 1-year depot repair service• 3-year/1-yr battery depot repair service• 3-year/1-yr battery limited onsite service²⁴• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)																				
									Mil-Spec test					MIL-STD-810G military certification															
									Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant																			